DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-007913 Address: 333 Burma Road Date Inspected: 14-Jul-2009

City: Oakland, CA 94607

OSM Arrival Time: 1900 **Project Name:** SAS Superstructure **OSM Departure Time:** 700 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes Wu Zhi Cheng No Yes **Inspected CWI report:** N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A **Qualified Welders:** Yes No N/A **Verified Joint Fit-up:** Yes No N/A N/A N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No Yes No N/A **Delayed / Cancelled:**

Segment 1AAE and lifts 3E and 3W **Bridge No:** 34-0006 **Component:**

Summary of Items Observed:

On this day CALTRANS OSM Quality Assurance Inspector (QA) Steve Hall was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island, in Shanghai, China. QA observed and/or found the following:

OBG segment 1AAE

This QA assisted Caltrans QA Mr. Shrikant Utekar perform Visual Testing (VT) of material and welds after the contractor sandblasted the internal portion of this segment. This QA observed numerous areas of undercut, overlap, porosity and incomplete fusion on various welds. All the areas were marked for repair and recorded on the applicable weld map.

OBG lift 3E and 3W

This QA received ZPMC Non Destructive Testing (NDT) notification No. 003693 to perform Magnetic particle Testing (MT) of approximately 15% of the welds previously tested and accepted by ZPMC Quality Control (QC) personnel. This QA did not test any of the welds listed on the above mentioned NDT notification for the following reasons: (Lift 3E) welds CA006-046 and 058, CA004-034 and 046 and CA002-062 Visual Testing (VT) noncompliant due to excessive undercut. (Lift 3W) welds CA005-022, CA003-046, 058, 034 and 022, CA005-046 and CA001-026 have not been completed. Welds CA005-034, CA001-062 and 038, SEG014E-007, SEG014E-030, SEG014E-053 and SEG014D-007 MT has not been performed by ZPMC. This QA informed ABF inspector

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identified as Mr. Li Jing Bo of the above mentioned issues with the welds on the NDT notification. Mr. Li inspected several of the welds on lift 3E and concurred with this QA. ZPMC QC was not available to be informed of the above mentioned issues at the time this QA was present.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.

Summary of Conversations:

As mentioned above.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (15000422372), who represents the Office of Structural Materials for your project.

| Inspected By: | Hall,Steven | Quality Assurance Inspector |
|---------------|-------------|-----------------------------|
| Reviewed By: | Prue,Erik | QA Reviewer |